



RFID

JOURNAL

LIVE!

MAY 9-11, 2023 | ORLANDO, FLORIDA

Planning Your Manufacturing Line Deployment

- Bart Ivy, PMP
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Overview

- AIM Anti-Trust Policy
- Rain RFID Primer
- Roadmap for Success
- Famous Last Words

Deploying RFID technology successfully requires careful planning



AIM Anti-Trust Policy

It is the policy of the AIM Inc. to conduct its operations in strict compliance with the antitrust laws. No AIM activities shall create even the appearance of a violation of the letter or spirit of the antitrust laws. This policy prohibits any discussion at AIM's meetings of unpublished commercial terms of sales, unannounced product development or unpublished cost and revenue data of a member. It is not appropriate for members to discuss competitive business terms with an intent to explicitly or implicitly form an agreement or understanding which restricts the exercise of independent business judgement, especially with regard to price, selection of customers, and markets in which it competes.

All attendees are permitted and encouraged to actively participate in all meeting discussions and activities as defined in the AIM Member Participation and Collaborative Guidelines. If any participant believes the group is drifting toward impermissible discussion, the topic shall be tabled until the opinion of counsel can be obtained.



AIM Collaboration Policy

AIM is proud to be the industry association and worldwide authority on barcode, RFID, RTLS and mobile computing, and is on the cutting edge of development in these areas. Our members have a long history of working together to provide a collaborative global influence on emerging technologies and innovation.

AIM committee meetings are held for the primary purpose of advancements in our industry, which necessarily involves development of work product intended solely for the public domain. AIM has developed this Policy for the protection of its members who engage in this important collaborative effort.

All information shared in this process shall be non-confidential and shared for the common purpose of producing work product for the public domain. No proprietary information, confidential information, or trade secrets should be shared during any AIM meeting. Additionally, information developed during AIM committee meetings should not be shared with others outside of this collaborative process until finalized and formally announced by AIM such as public review or standards documents or finalized issued standards.

These limitations are necessary to protect and safeguard the integrity of the collaborative process, AIM members, and AIM itself. All meetings shall be conducted in a manner that avoids the appearance of any conduct that might violate this policy.



Why is AIM Relevant to You?

AIM is the global authority that links physical, digital and regulatory worlds!

We are the unbiased and trusted global authority for technologies that automate accurate data capture and efficiency.

We provide a vehicle for global standardization adoption and scale.

We link standardized & emerging technologies to work interoperable to suppliers, manufacturers, services providers, and users.

- o We verify compliance and harmonization.
- o We impact digital identification and authentication regulations.
- o We develop standards.
- o We provide guidance and technology insight.

Through this we enable sustainable, efficient, safe, resilient, and accurate data.

Education • *Advocacy* • *Standards* • *Community*



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There's Strength in Numbers

- AIM is an unbiased, global organization
- Network with like-minded individuals
- Influence the industry
- Committees to solve industry issues

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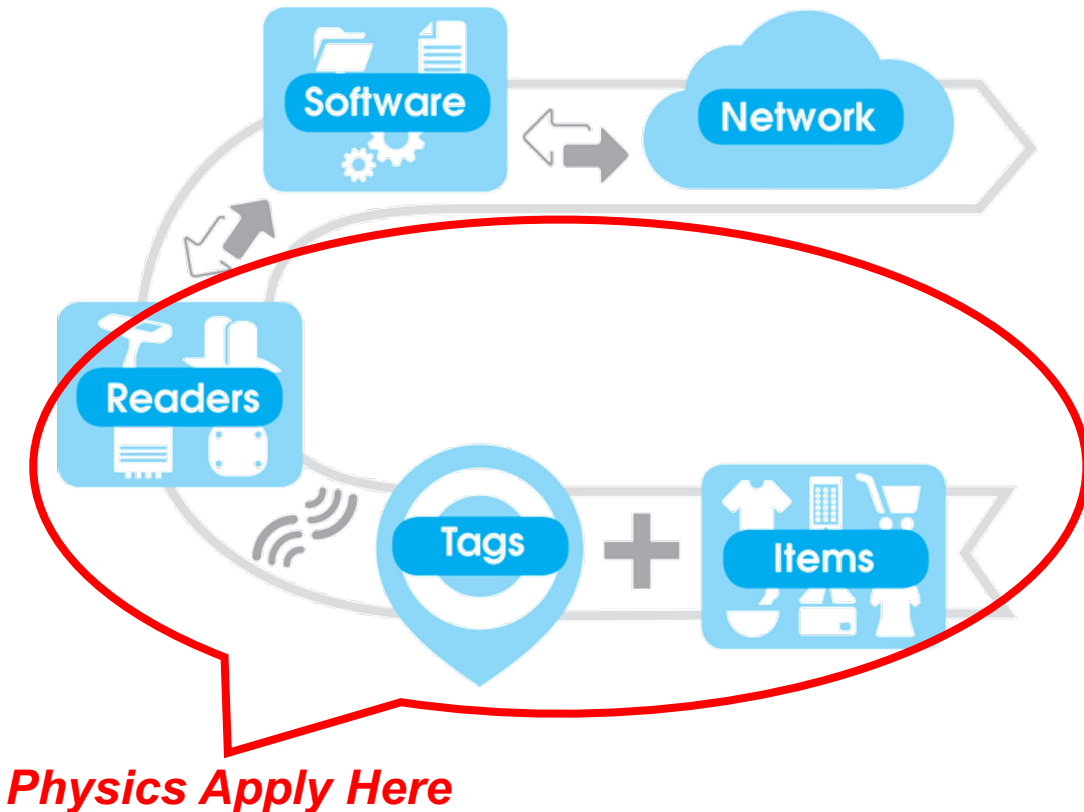
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RAIN RFID Primer

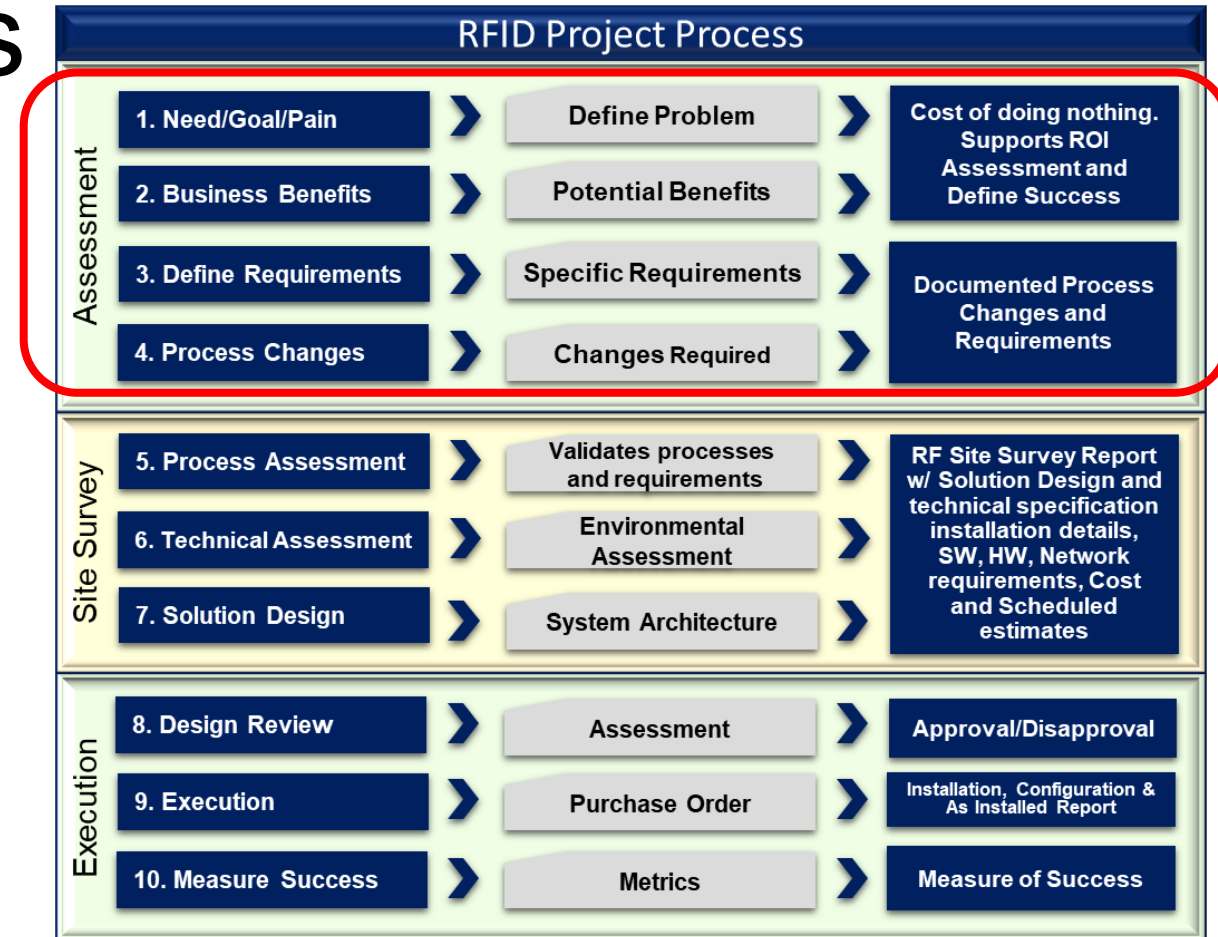
• Five Basic Nodes

- **Network** – Wired or wireless communications
- **Software** – Executes business Logic
- **Readers** – Provides the means to communicate with RFID Tags
- **Tags** – Identifies items & drives entire design
- **Items** – Valued assets to be tracked/identified – drives tag selection



Roadmap to Success

- Deploying RFID technology successfully on any line requires careful planning
- Its critical to understand
 - Business goals & potential benefits
 - Effect on business processes
 - Requirement that must be met by the RFID solution
 - What are your tradeoffs
 - How you define success

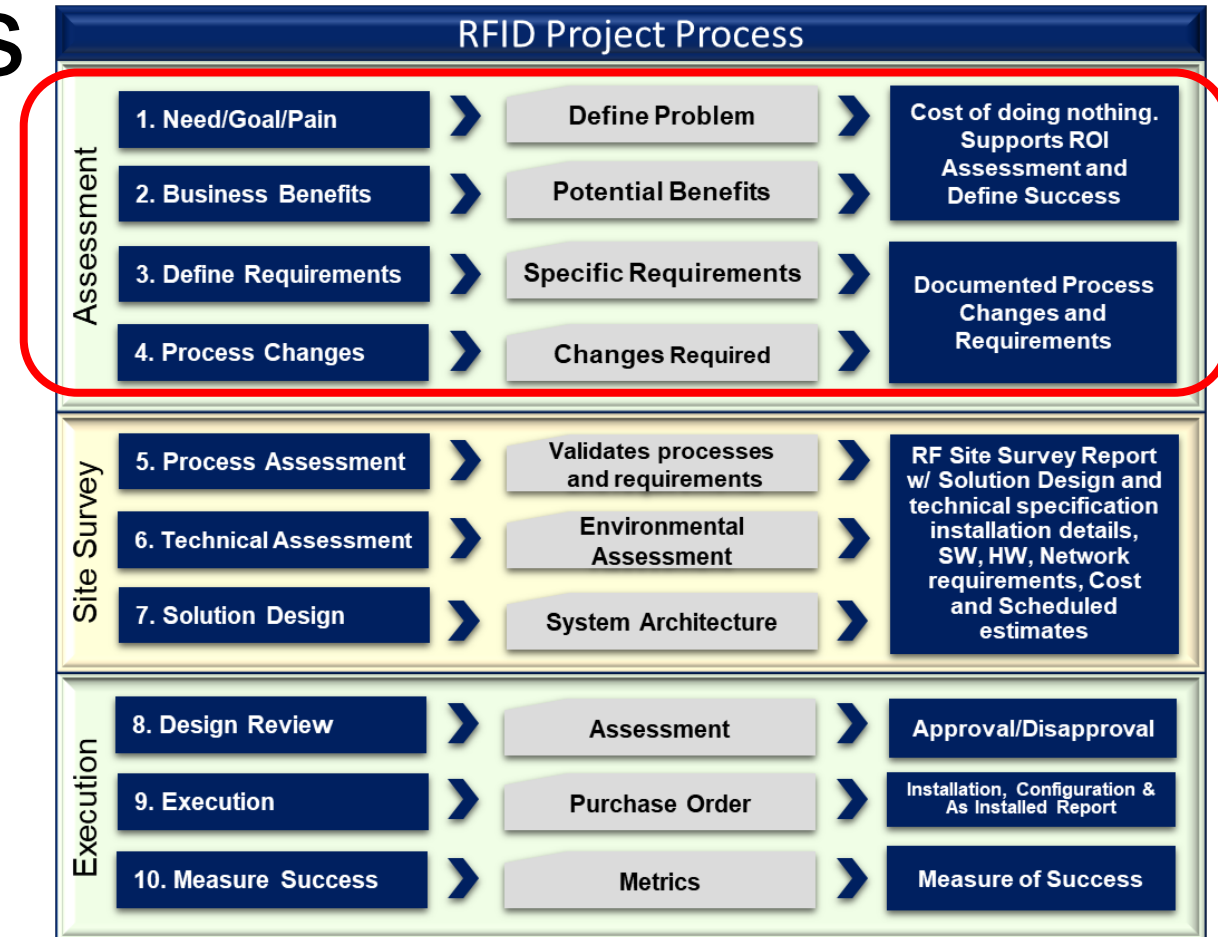


Deploying a solution without a clearly defined and measurable problem to resolve; seldom results in success or derives significant ROI.



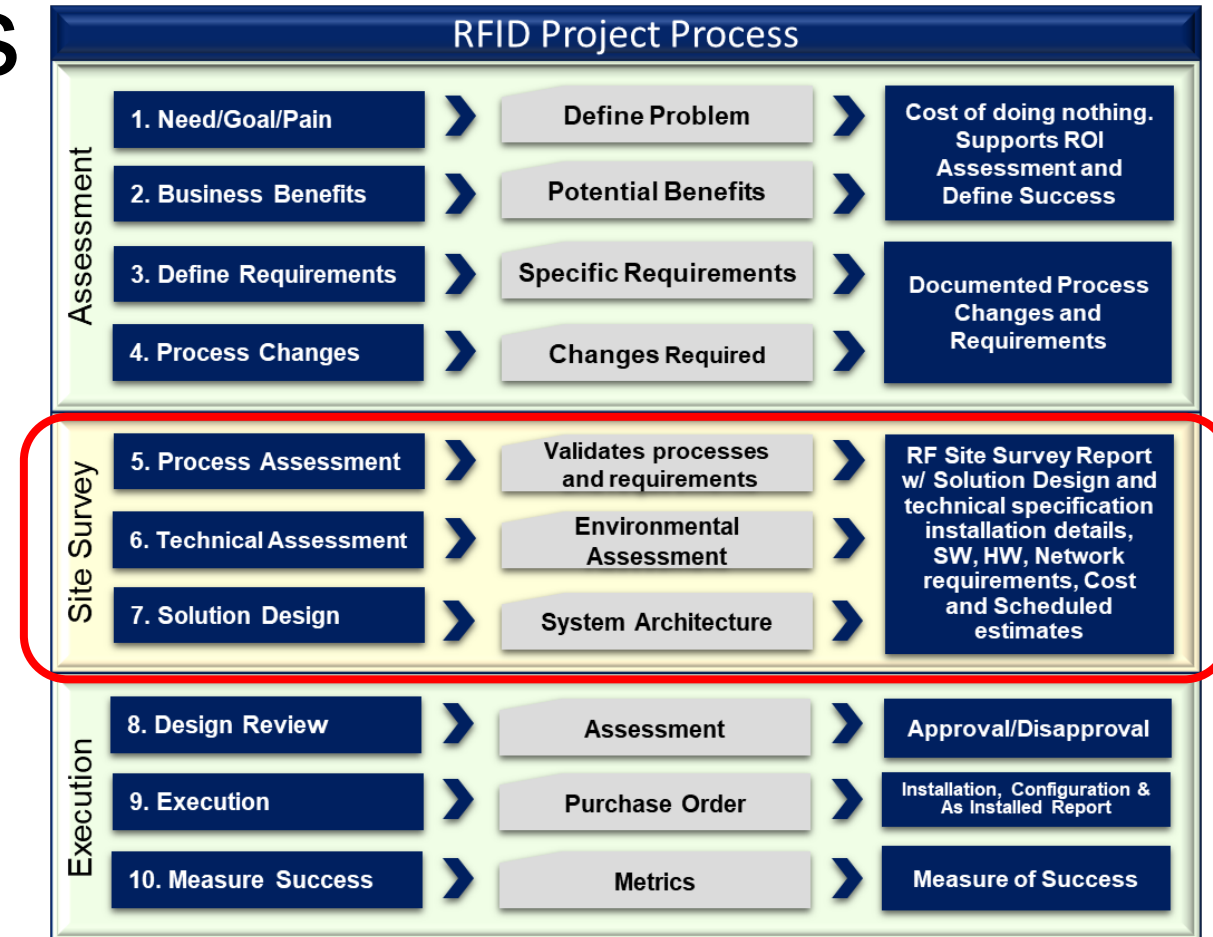
Roadmap to Success

- Prepare for the Site Survey
 - Identify stakeholders
 - Problem statement
 - Product labeling requirements
 - System interface requirements
 - Digital building drawings
 - Business processes flow map



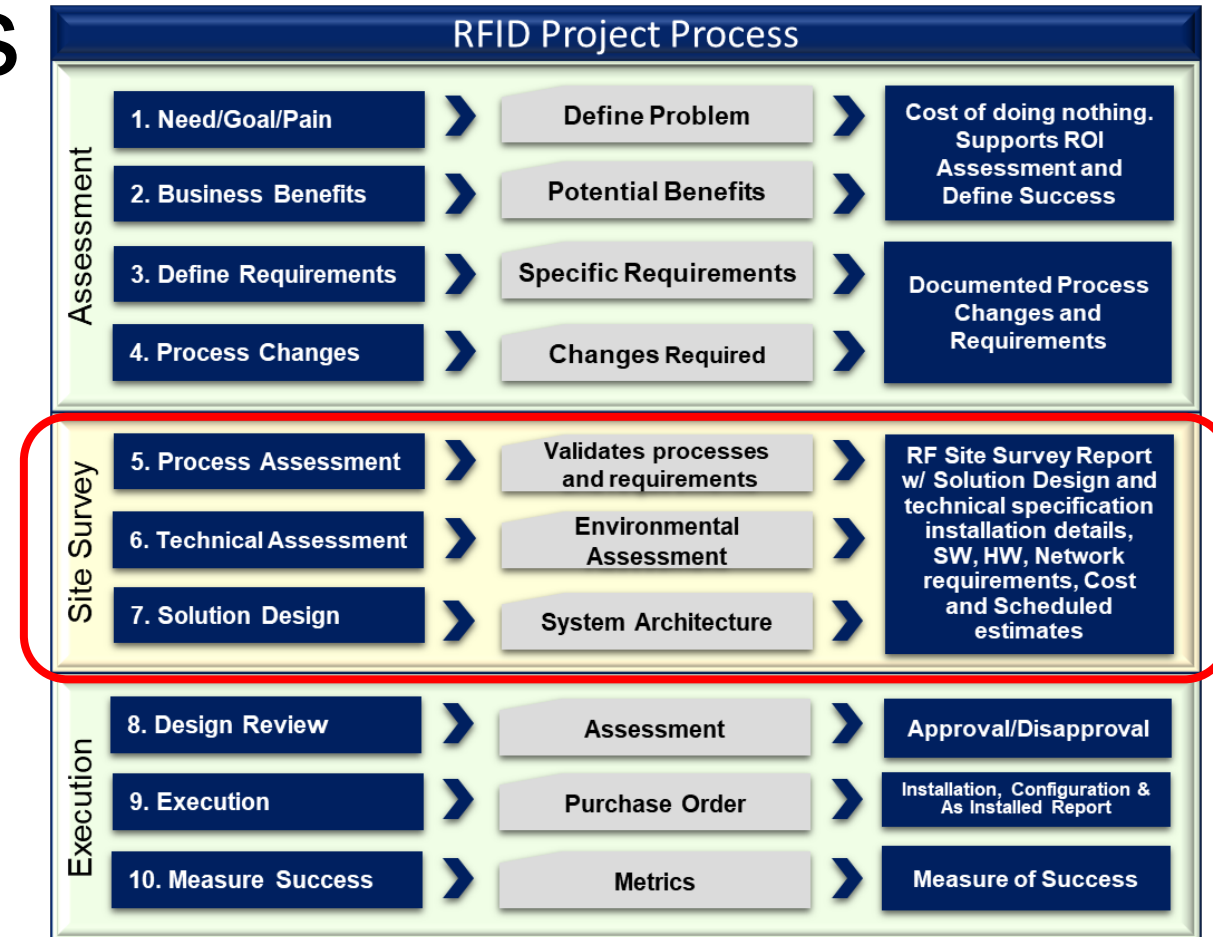
Roadmap to Success

- RF Site Survey
 - Validates – assumptions, requirement and defined process
 - Assess RF Environment to identify:
 - Potential RF interference
 - RFID equipment mounting location and requirements
 - Operating RF frequency



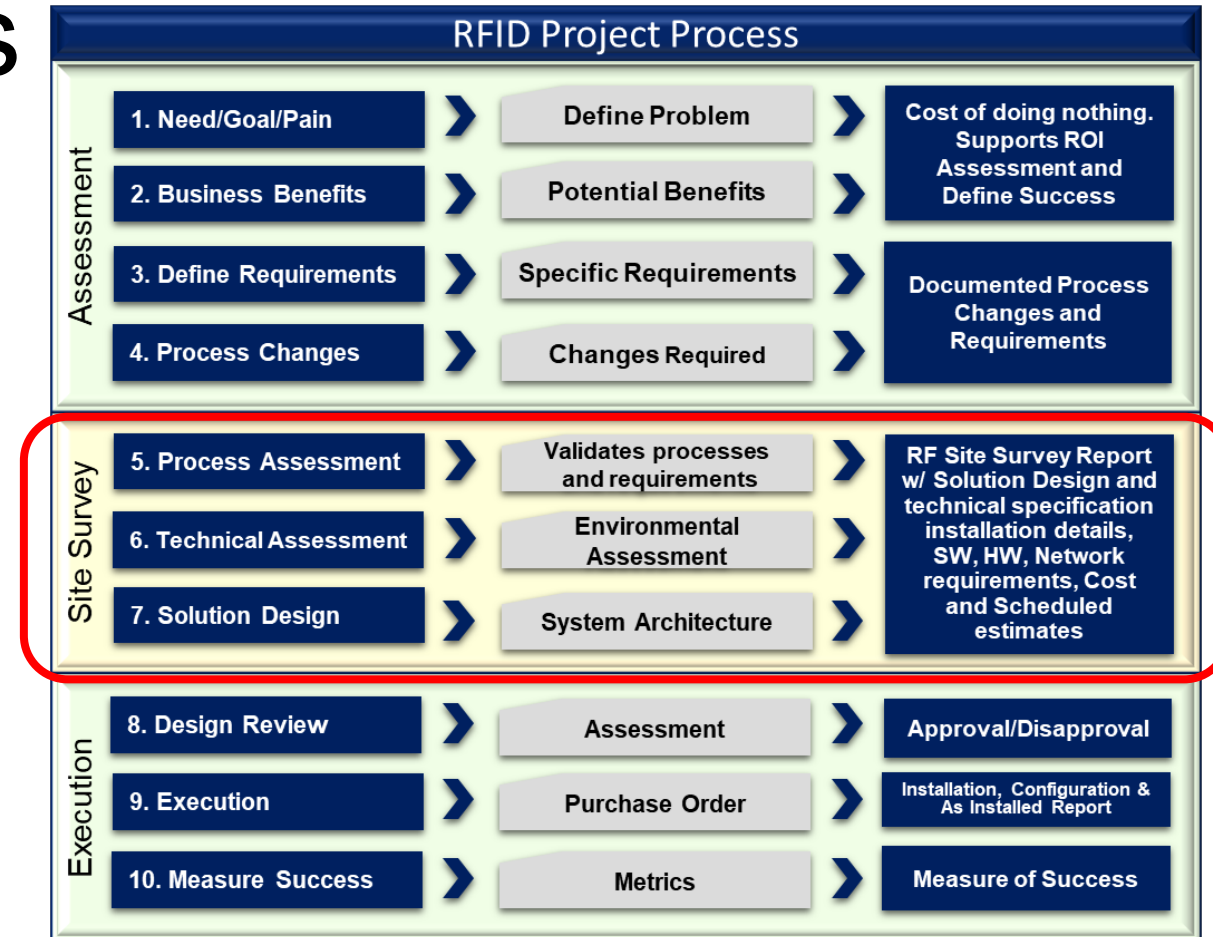
Roadmap to Success

- RF Site Survey – Cont.
 - Assess Item characteristics for tagging requirements:
 - Material – makeup of product
 - Size and form factor
 - Harsh Environment Exposure
 - Durability
 - Cost



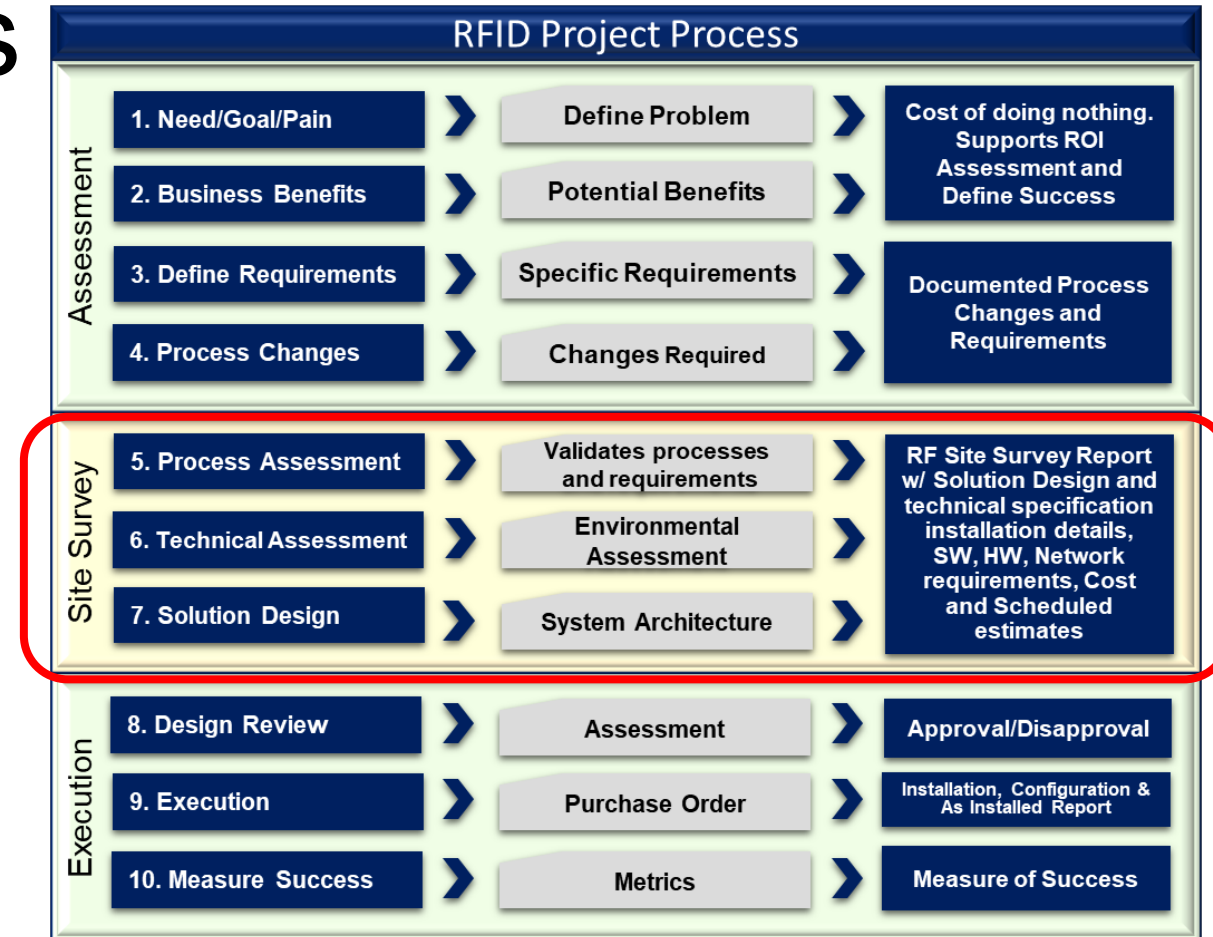
Roadmap to Success

- RF Site Survey – Cont.
 - Assess Material Flow:
 - Flow
 - Mode
 - Speed
 - Choke Points
 - Read Range



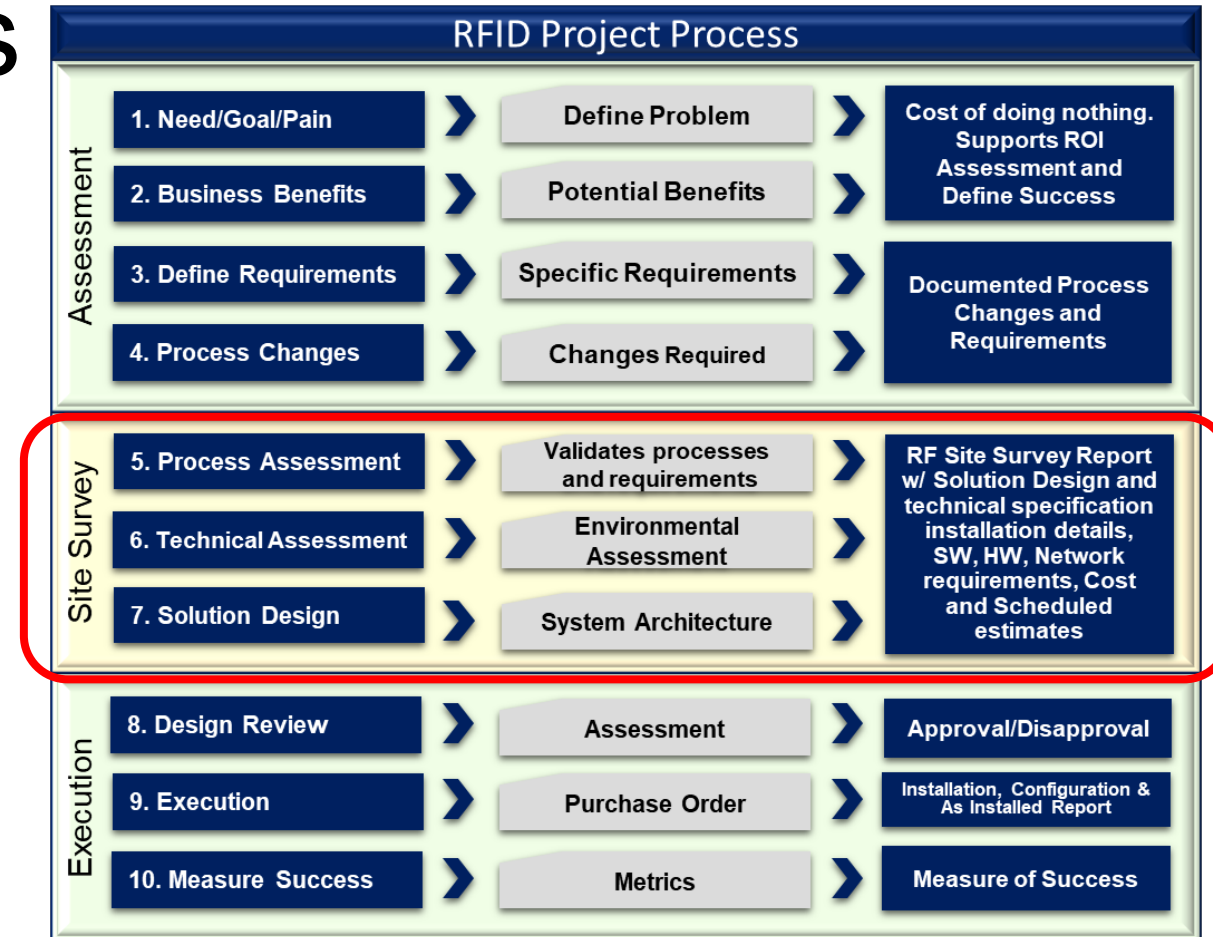
Roadmap to Success

- RF Site Survey – Cont.
 - ERP Interface:
 - What data is needed
 - Bidirectional
 - Interface Method
 - Interval
 - Security



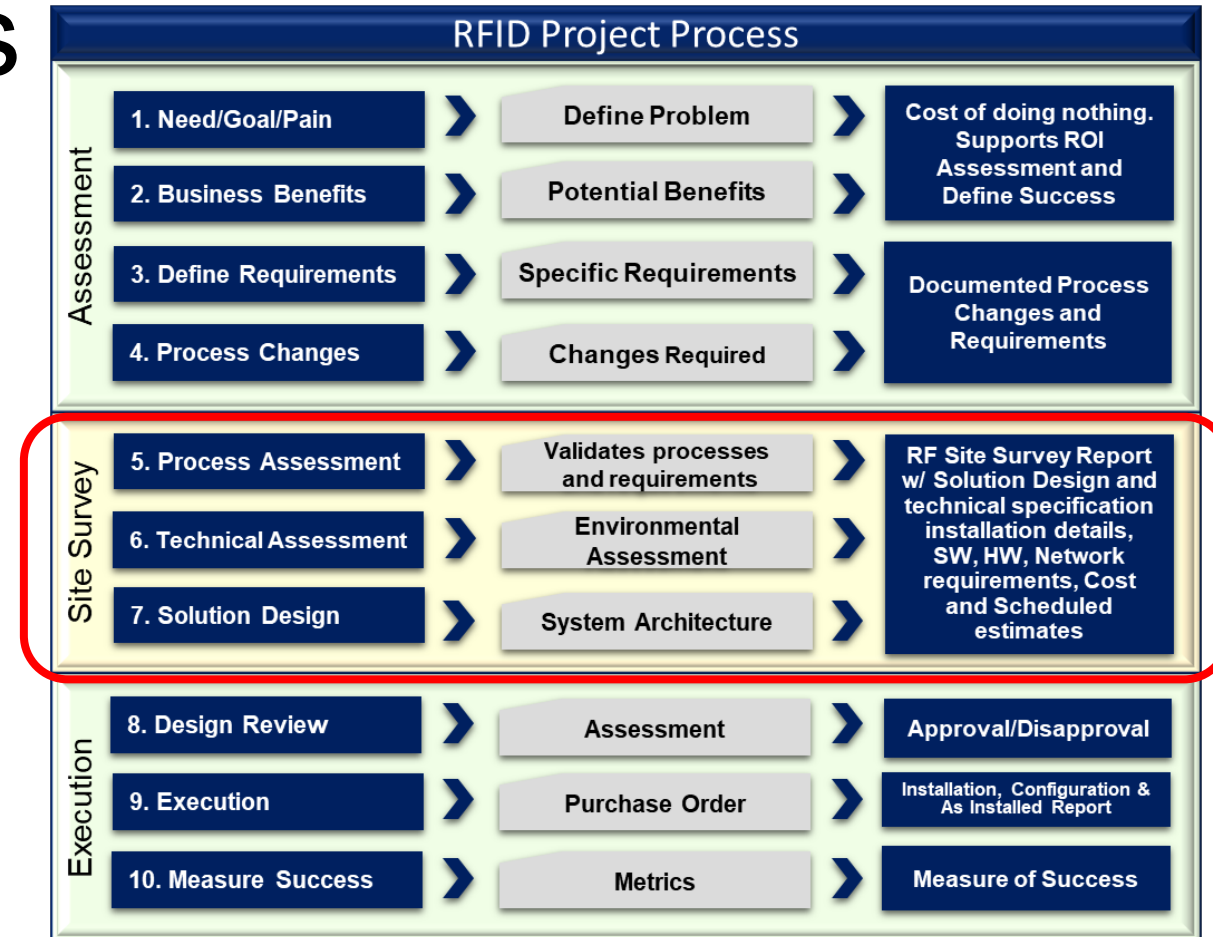
Roadmap to Success

- RF Site Survey – Cont.
 - Network Requirements:
 - Access requirements
 - Availability of open switch ports
 - Location of new drops to support RFID equipment.



Roadmap to Success

- RF Site Survey – Cont.
 - Generate a Site Survey Report
 - System architecture
 - List of key stake holders
 - System design showing location and mounting method of all equipment
 - Identify action items required prior to execution
 - Identify risks associated to the successfully deployment
 - Cost and schedule



Roadmap to Success

- Execution – Go / No Go
 - Design Review
 - Review the proposed solution to ensure that it will achieve the desired outcome.
 - If not address issues with Site Survey team to determine if they can be achieved.
 - Initiate a Purchase Order
 - Schedule Implementation with internal and external team to minimize disruption
 - Monitor Execution Schedule
 - Address issue early and often
 - Start metrics capture as soon as possible
 - Measure Success



Famous Last Words

Lou Holtz's "I follow three rules:

- 1. Do the right thing,*
- 2. do the best you can, and*
- 3. always show people you care.*

You've got to make a sincere attempt to have the right goals to begin with, then go after them with appropriate effort, and remember that you can't really achieve anything great without the help of others."



Contact Info

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THANK YOU

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